

IN THE CLAIMS

Please delete claims 1, 66, 67, 74 and 79.

Please rewrite the claims as follows:

2. (Twice Amended) The isolated polynucleotide of claim 3 and 4, wherein the polynucleotide is a DNA sequence.

E1 3. (Twice Amended) An isolated polynucleotide encoding a glutathione transferase (GST) subunit, wherein the coding sequence encodes the amino acid sequence of SEQ ID No. 2.

4. (Twice Amended) (Twice Amended) An isolated polynucleotide encoding a glutathione transferase (GST) subunit, wherein the polynucleotide is coding sequence of SEQ ID No. 1.

E2 8. (Amended) A chimeric gene comprising the polynucleotide according to claim 3 or 4 operably linked to regulatory sequences that allow expression of the coding sequence in a host cell.

E3 10. (Twice Amended) A vector comprising the polynucleotide according to any one of claims 2 to 4 or the chimeric gene according to claim 8 or 9.

20. (Twice Amended) A method of producing a transgenic plant cell comprising:

(a) transforming a plant cell with the expression vector according to claim 11 to produce a transgenic plant cell, and optionally,

E4 (a') transforming the cell with one or more further polynucleotide sequences coding for a GST subunit, operably linked to regulatory elements that allow expression of the subunit in the cell.

21. (Twice Amended) A method of producing a first-generation transgenic plant comprising:

(a) transforming a plant cell with the expression vector according to claim 11 to produce a transformed plant cell; and

(b) regenerating the transformed plant cell to produce a transgenic plant.

22. (Twice Amended) A method of producing a transgenic plant seed

E4
cont comprising:

(a) producing a transgenic seed from the transgenic plant produced by step (a) of claim 21.

23. (Amended) The method of claim 21 comprising producing a second generation transgenic progeny plant from a first-generation transgenic plant, and optionally producing transgenic plants of one or more further generations from the second-generation progeny plant thus produced.

25. (Twice Amended) A transgenic plant cell produced by the method according to claim 20.

ES 26. (Amended) A transgenic plant cell callus comprising the cell according to claim 13.

27. (Amended) A transgenic plant cell callus comprising the cell according to claim 13, or produced from a transgenic plant cell, first-generation plant, plant seed or progeny plant according to claim 25.

29. (Amended) A nucleic acid construct comprising:

E6 (a) the isolated polynucleotide according to claim 3 or 4 operably linked to regulatory elements that allow expression of the coding sequence in a plant cell; and
(b) a site into which a further polynucleotide comprising a coding sequence can be inserted.

32. (Thrice Amended) A method of transforming a plant cell or of producing a plant cell culture or transgenic plant, the method comprising:

(a) providing an untransformed plant cell which is susceptible to a herbicide whose herbicidal activity is reduced by a dimeric protein comprising two GST subunits;

(b) transforming the plant cell with the vector according to claim 31;

(c) cultivating the transformed cell under conditions that allow the expression of the polynucleotide encoding a GST subunit to provide a polypeptide comprising a GST subunit, wherein the polypeptide comprising the GST subunit can form a dimer with another GST subunit; and/or

E7 (c') regenerating the cell to give a cell culture or plant such that the polynucleotide is expressed to provide a polypeptide comprising a GST subunit, wherein the polypeptide comprising the GST subunit can form a dimer with another GST subunit;

(d) contacting the cell, cell culture or plant with the herbicide whose herbicidal activity is reduced by the dimeric protein, and to which the untransformed plant cell was susceptible, and

(e) selecting cells, cell cultures or plants that are less susceptible to the herbicide than are corresponding untransformed cells, cell cultures or plants.

E8 68. (Amended) An isolated polynucleotide encoding a glutathione transferase (GST) subunit having a coding sequence at least 70% identical to the coding sequence of SEQ ID No. 1 or its complement.

E9 71. (Amended) The isolated polynucleotide of claim 70 having a coding sequence at least 95% identical to the coding sequence of SEQ ID No. 1 or its complement.